

W.55.3

HINCKS

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THE TOWNSHIP
OF
HINCKS

DISTRICT OF
TIMISKAMING

LARDER LAKE
MINING DIVISION

SCALE: 1-INCH=40 MILES

LEGEND

- PATENTED LAND
- CROWN LAND SALE
- LEASES
- LOCATED LAND
- LICENSE OF OCCUPATION
- MINING RIGHTS ONLY
- SURFACE RIGHTS ONLY
- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES

NOTE

400' surface rights reservation along the shores of all lakes and rivers.

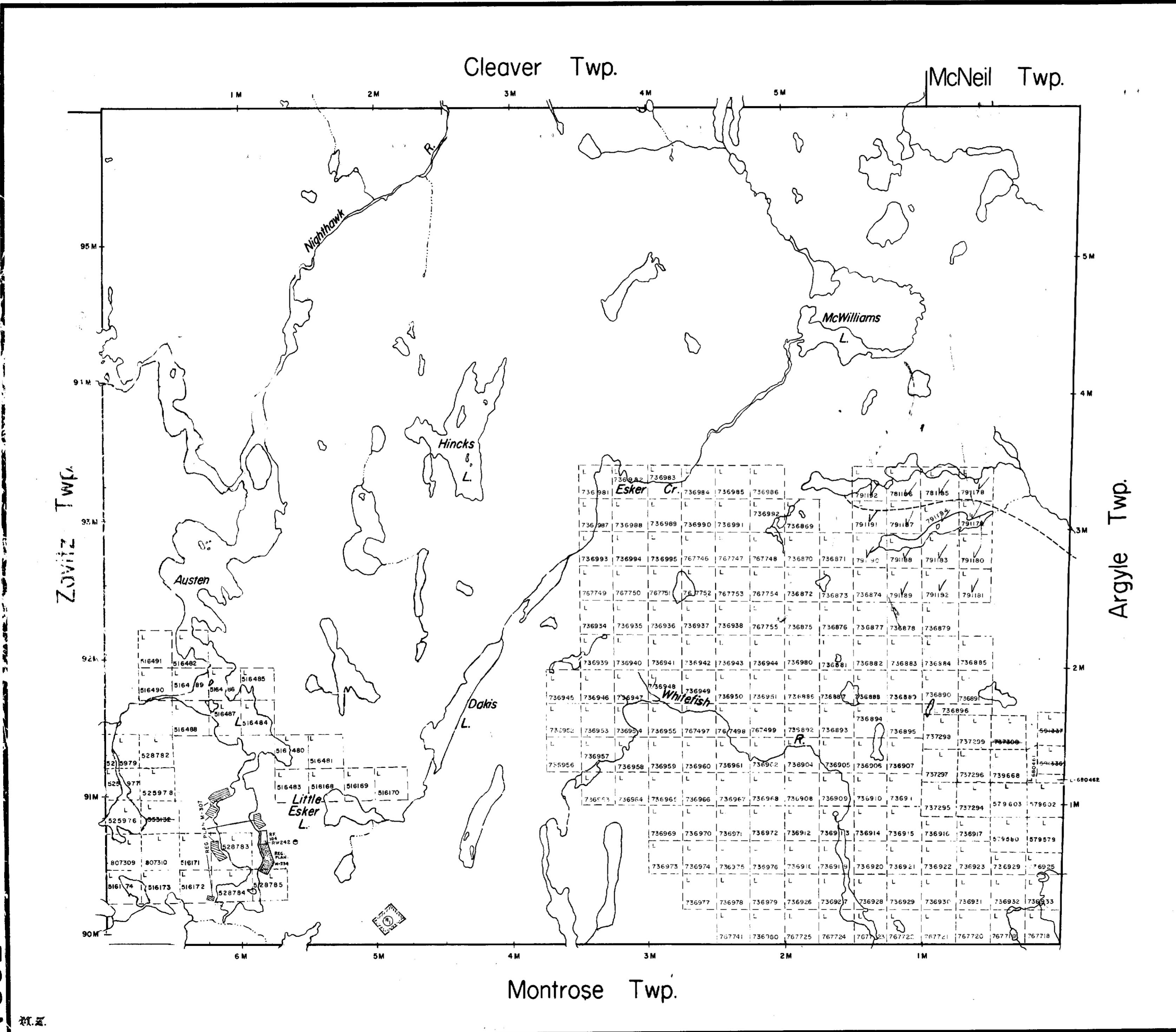
Areas withdrawn from staking under Section 43 of the Mining Act (R.S.O. 1970).

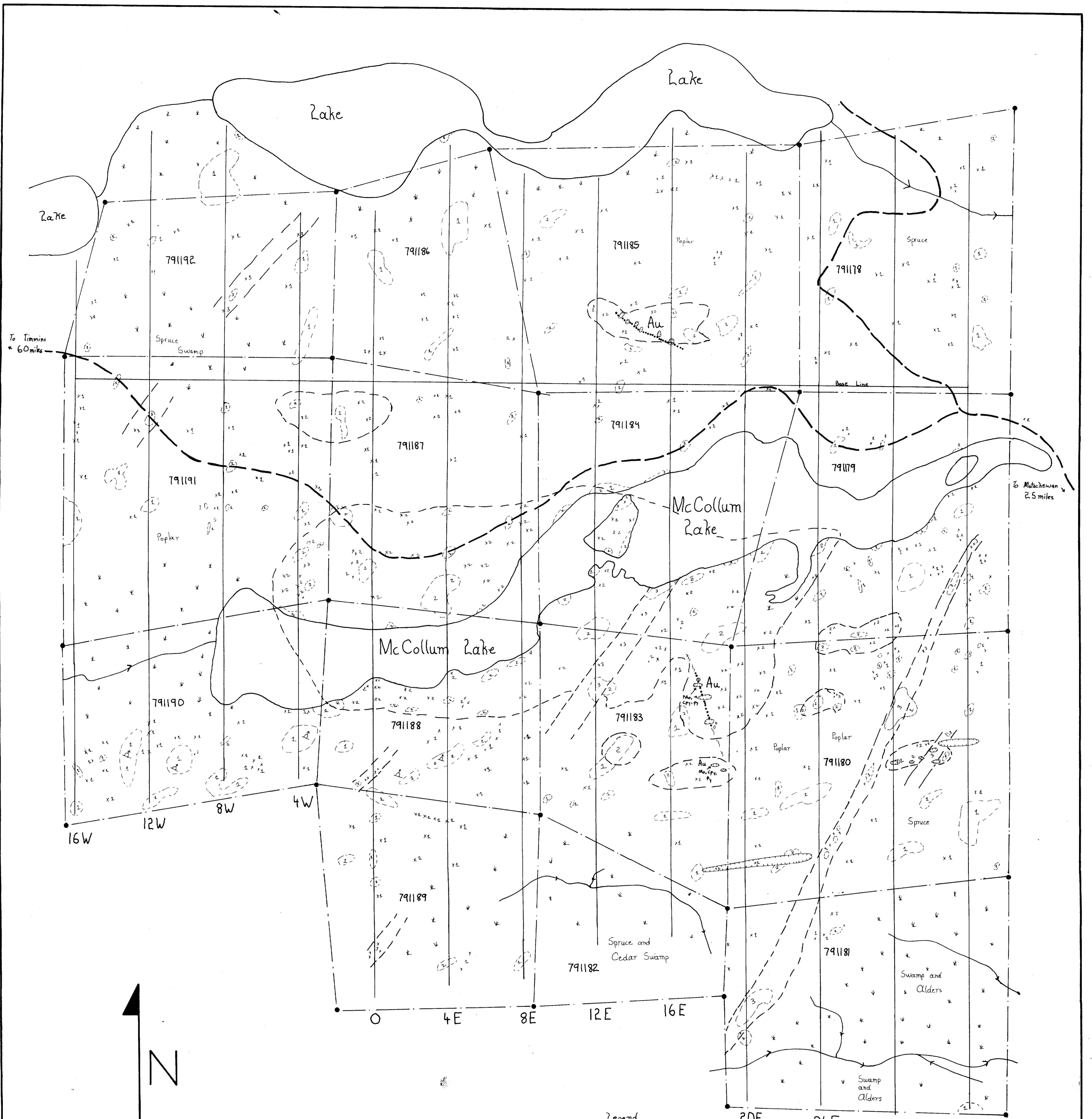
Order No. File Date Disposition

W 27/78 188522 May 31, 1978 S.R.O.

PLAN NO - M.223

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEY AND MAPPING BRANCH



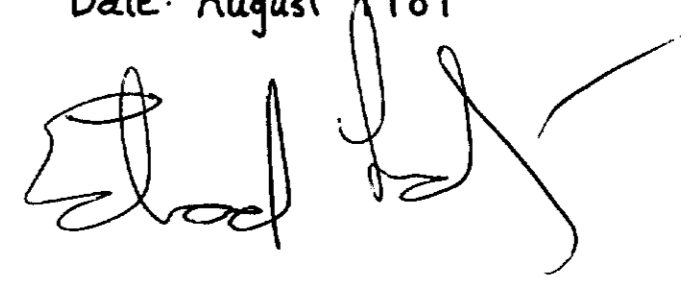


- Legend
- 3 Matachewan Diabase
 - 2 Quartz Syenite
 - 1 Mafic Metavolcanics

- Symbols
- x Outcrop
 - Area of Outcrop
 - Geological Contact
 - ~ Creek with flow direction
 - - - Road
 - - - Trench
 - * Swamp
 - - - Fault
 - Quartz Vein
 - Au Gold
 - Mo Molybdenite
 - Py Pyrite
 - Cpy Chalcoprite
 - ~ Pillow Lava with top determination
 - - - Claim Line and claim post

Marjel Resources Inc.
 Geological Plan
 Hinks Township Property
 Bannockburn Project
 District of Cochrane
 Larder Lake Mining Division
 Scale: 1" = 200'
 By: E. Ludwig
 Date: August 1984

7/20/84





42A02SW8849 2.8040 HINCKS

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MARJEL RESOURCES INC.

Exploration Activities

on the

Hinks Township

Property

April 19, 1985

RECEIVED

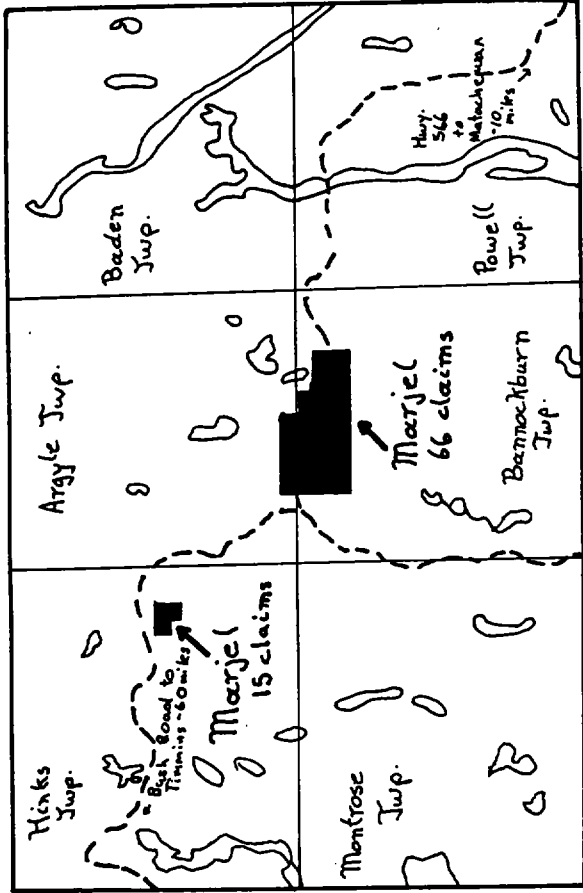
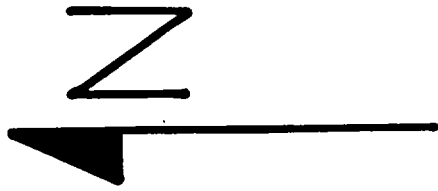
APR 26 1985

MINING LANDS SECTION

*2nd
2.8039*

Eduard Ludwig

Geologist



Property Location Map - 1" = 4 miles

Geikie	Skueser	McNeil	Robertson
Zavitz	Hinks	Argyle	Baden
Hutt	Montrose	Bannockburn	Powell

Index Map - 1" = 10 miles

Marjell Resources Inc.
 Bannockburn Project
 Property Location Map
 Bannockburn and Hinks
 Townships
 District of Cochrane
 Larder Lake Mining Division
 September 1984
 Figure 1

LOCATION AND ACCESS

The Hinks Township property is located near the 3 mile post $\frac{1}{2}$ mile west of the eastern township boundary (Fig. 1). It is located in the District of Cochrane, Larder Lake Mining Division.

Relief is extreme in the southern portions of the property with many hills, up to 200 feet high, interspersed with swampy regions.

Second growth spruce and poplar are locally dense, with cedars and alders in the lower areas.

Overburden appears thick only in low areas and is probably quite variable in depth. Rock exposures are good in most places, owing to the rugged topography, which allowed for an adequate assessment of underlying lithologies.

Two long, narrow lakes traverse the property in an east-northeast direction, one along the north boundary and the second through the centre (McCollum Lake).

Access to the property is by bush road which passess through the centre of the claim group. This road joins Timmins to Matachewan.

From Timmins the property lies 60 miles south and from Matachewan is approximately 25 miles to the west.

The bush road which passes through the property is only partially maintained year round. Eighteen miles are plowed from Matachewan, the remaining 8 miles must be travelled by snowmobile.

The centre of the property was the site of a sawmill which operated over 10 years ago.

PROPERTY OWNERSHIP, CLAIM LIST, ASSESSMENT STATUS

At this date, the following mining claims are held by Marjel Resources Inc., Suite 402- 27 Queen Street East, Toronto, Ontario. M5C 2M6.

Claim List:	Claim No.	In good standing to:
	791178-192 (inclusive)	February 22, 1985

HISTORY

The area has received sporadic attention over the years.

1931- H.C. Rickaby, then a geologist with the Province of Ontario Department of Mines, examined the property in 1931 and included a description dealing with the gold-bearing quartz vein south of McCollum Lake in his report on the area, Volume XLI, Part II, 1932. The description is as follows: "The quartz

vein was 12 inches wide approximately north-south and dipping 33 degrees west. It was mineralized with coarse pyrite and a little specularite. Two grab samples from this vein assayed \$25.00 and \$8.20 per ton in gold. The vein could be traced for 50 feet at the time of the writer's visit to the property, and has since been reported that it has been uncovered for a distance of 600 feet in the greenstones to the south. Another vein occurs on the boundary line between claims Nos. 8163 and 8164. The quartz has a width up to 18 inches, and is traceable for 150 feet. It strikes N 35 degrees W and dips southwest. It appeared associated with a porphyry dyke with the same strike. A grab sample of the quartz containing some pyrite showed a trace of gold on assay."

1974 - Prestige Mines Ltd. staked 12 claims encompassing the McCollum Gold Occurrence and carried out a two-phase program on the property. The programs completed included geological mapping, a VLF survey and 600 feet of diamond drilling. Results are as follows:

- 1) GEOLOGICAL MAPPING: Mapping of bedrock exposures over the entire 12 claims outlined the underlying lithologies but failed to reveal any additional gold mineralization other than the showing. The showing returned assays from nil to 0.12 ounce of gold per ton from grab samples of quartz vein material.
- 2) VLF SURVEY: One strong conductor was located under McCollum Lake. This conductor is interpreted by Marjel as being either a cable from previous activities of the sawmill or a fault contact between the quartz syenite intrusion and the mafic metavolcanic rocks. The second suggestion is favoured because of evidence from geological mapping, and an offset which displaces the conductor and subsequently the lake itself.
- 3) DIAMOND DRILLING: The McCollum Gold Occurrence was tested at depth with 3 drill holes. Only one intersected the vein at a vertical depth of 90 feet. The best result was a 2.5- foot length which assayed 0.02 ounce of gold per ton.

Four other intersections yielded assays from 0.01 - 0.02 ounce of gold per ton over short intersections.

The property was dropped after diamond drilling failed to reveal any economic mineralization.

1984- In February 1984, Marjel Resources acquired 15 claims encompassing the McCollum Gold Occurrence and the quartz syenite intrusion.

REGIONAL GEOLOGY

The region forms a small part of a belt of "greenstones" extending from southwest Timmins, Ontario, to Chibougamau, Quebec.

Rocks of every major division of the Precambrian stratigraphic column for northeastern Ontario are present in the region.

The oldest rocks in the area are volcanic and they are overlain by tightly-folded sedimentary rocks. Both are cut by mafic and silicic intrusions. The intrusive rocks, in turn, are cut by early diabase dykes. Flat-lying sedimentary rocks overlie all of the above rocks and are intruded by a few late diabase dykes.

TABLE 1

Table Of Formations

Phanerozoic

Cenozoic

Quaternary

Pleistocene and Recent

Sand, Silt, Gravel, Till, Swamps

Precambrian

Proterozoic

Mafic Intrusive Rocks

Olivine Diabase, Quartz Diabase

Early Precambrian

Mafic Intrusive Rocks

Diabase

Intrusive Contact

Felsic Intrusive and Metamorphic Rocks

Late Granitic Rocks

Biotite Granite, Hornblende Granodiorite,
Aplite, Lamprophyre, Quartz-Feldspar Porphyry

Early Granitic Rocks

Quartz Monzonite, Trondjemite, Diorite Gneiss
Amphibole Gneiss, Gneissic Granodiorite

Intrusive Contact

Metamorphosed Mafic and Ultramafic Intrusive Rocks
Gabbro, Quartz Gabbro, Diorite, Peridotite

Intrusive Contact

Metavolcanics and Metasediments

Metasediments

Conglomerate, with minor Tuffaceous Siltstone
and Graphitic slate interbeds

Iron Formation: Pyritic Graphitic Slate, Magnetite

Intermediate To Felsic Metavolcanics

Dacitic to Rhyolitic Massive Flows, Tuff,
Lapilli Tuff, Volcanic Breccia, Amygdaloidal
and Pillowed Dacitic Flows; Sericite Schist,
Chlorite-Sericite Schist

Mafic To Intermediate Metavolcanics

Massive and Pillowed Basaltic to Andesitic
Flows; Variolitic, Amygdaloidal and Porphyritic
Flows, minor Tuff and Agglomerate

(Bright, 1984)

A fault zone, interpreted by airborne geophysics trending northwest, passes beneath the southern boundary of the property.

PROPERTY GEOLOGY

A geological survey was carried out over the property from June 19, 1984 to June 27, 1984. Initially a grid was cut over the entire 15 claims with lines at 400-foot centres and stations every 100 feet. A total of 12.5 miles of grid line was cut.

The property is mainly underlain by Early Precambrian (Archean) mafic metavolcanics consisting mostly of andesite pillow lavas and massive flows. Alteration is non-existent and volcanics appear to be metamorphosed to lower greenschist facies. Andesites are locally porphyritic displaying phenocrysts of feldspar and are dark to light green in colour.

A small mass of Algoman type quartz syenite intrudes the greenstone in the central part of the claim group. Throughout the intrusive the relative amounts of quartz and orthoclase vary; where one is abundant the other is not, with the inverse relationship also observed.

Orthoclase usually forms equant grains which vary in size, but are always euhedral. Quartz forms small equant grains which are usually white in colour and rarely change grain size. Quartz does not appear to be introduced at a later point in geologic time but syndepositional with the intrusion. Accessory minerals common throughout the intrusion are biotite, hornblende and occasionally pyrite.

Fractures filled with quartz and pyrite are abundant throughout the intrusion with random orientation. Filled fractures rarely exceed 1" in width.

Diabase dykes form several high outcrop ridges, striking northeast across the property, and are interpreted as being of Matachewan age.

MINERALIZATION

Gold mineralization is confined to large quartz veins mineralized with finely disseminated pyrite and molybdenite. Values are erratic and display a direct association with the amounts of molybdenite present. Assay values and local geology are summarized on a sketch map in the back of report (Fig. 2)

The McCollum Gold Occurrence consists of two quartz veins,

the first being south of McCollum Lake, and the second lying north of the lake.

The vein lying south of the lake (Fig. 2) appears to be associated with a fault zone which has been healed by a 12-inch quartz vein. Sporadic mineralization of pyrite cubes, trace chalcopyrite and molybdenite plating fractures, are characteristic of the vein. The presence of molybdenite was verified by assay. The vein strikes N 20 degrees W and dips on average at 35 degrees west.

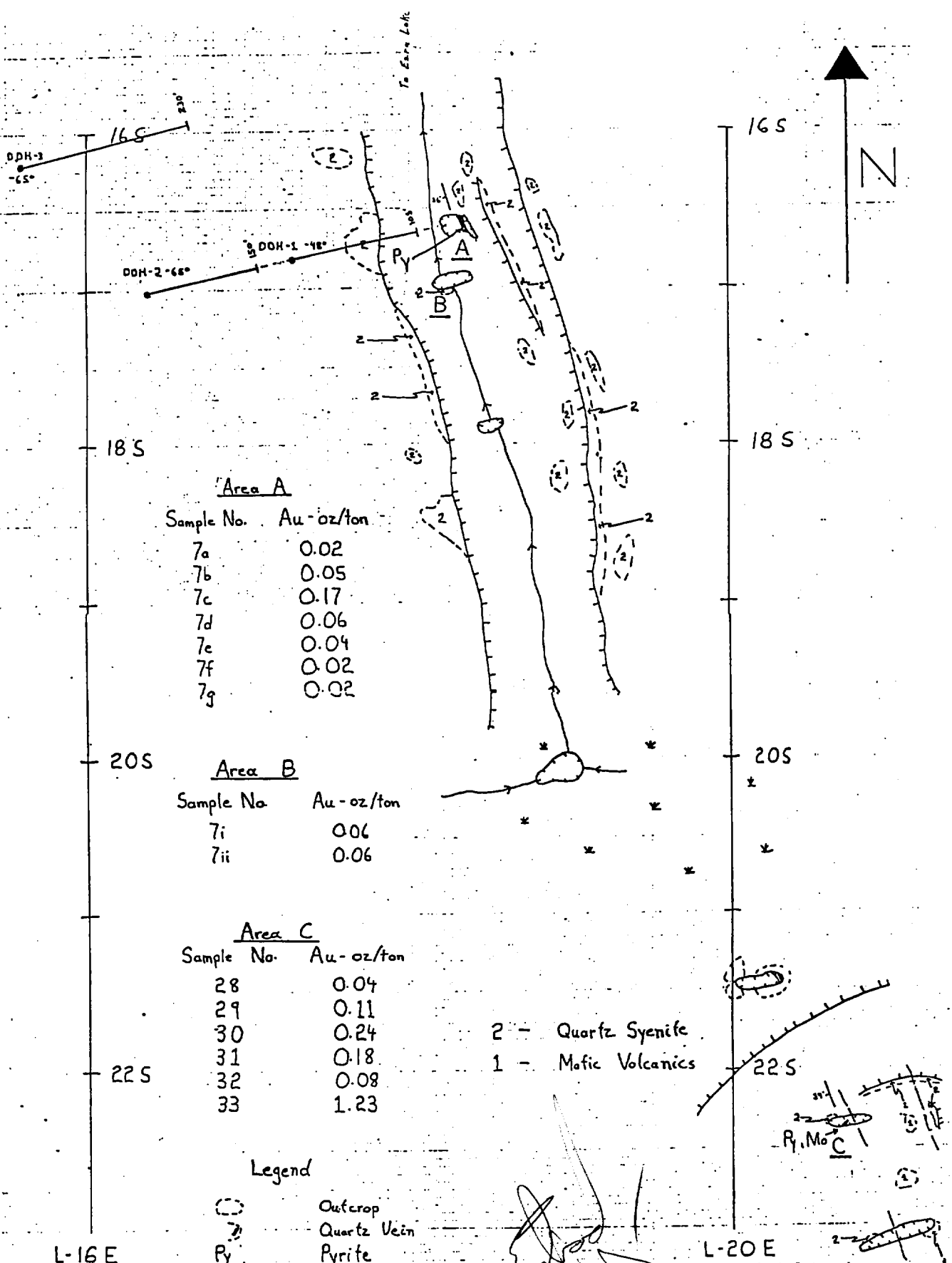
Two sets of distinct fractures occur within the vein and are observed to control sulphide mineralization. These are: extension and shear fractures, probably caused by repeated movements of the fault creating tensional forces in the vein.

Host rock of this vein is highly altered quartz syenite with many of the feldspars being altered to sericite and kaolinite. This type of alteration is evident of porphyry moly-copper deposits (Hydrothermal alteration or H^+ metasomatism). Pyrite is consistently mineralized throughout the altered zone, ranging from 2 - 5 percent.

Two other veins were located on surface within the fault zone,

pinching and swelling from $\frac{1}{2}$ inch to 6 inches, each containing 3-5 percent pyrite and 2 percent molybdenite. Although all gold values from these veins were anomalous, the best obtained was 0.022 ounce of gold per ton.

The vein north of McCollum Lake is associated with a small syenite dyke cutting mafic volcanics striking N 42 degrees W and dips 43 degrees to the southwest. There is no evidence of secondary structures and thus only contains traces of sulphide mineralization and traces of gold. One drill hole put down on this vein by Prestige Mines Ltd. intersected 2 feet of 0.02 ounce of gold per ton.



Area A

Sample No.	Au-oz/ton
7a	0.02
7b	0.05
7c	0.17
7d	0.06
7e	0.04
7f	0.02
7g	0.02

Area B

Sample No.	Au-oz/ton
7i	0.06
7ii	0.06

Area C

Sample No.	Au-oz/ton
28	0.04
29	0.11
30	0.24
31	0.18
32	0.08
33	1.23

2 - Quartz Syenite
 1 - Mafic Volcanics

Legend

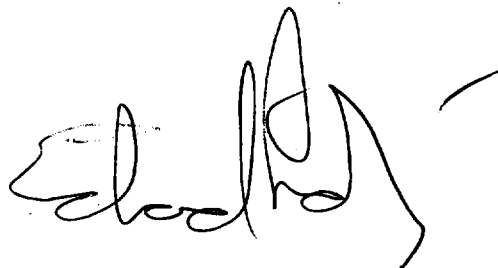
- Outcrop
- Quartz Vein
- Pyrite
- Molybdenite
- Swamp
- Creek - Direction of Flow
- Ridge - with outcrop
- Diamond Drill Hole
- Trench

Marjel Resources Inc. - 1984
 Trench Location Map With
 Assays of Quartz Vein
 Property I - Hinks Twp.
 Scale: 1" = 50' | June 15, 1984

CERTIFICATE

I, Eduard Ludwig certify that I am a consulting geologist, residing at R.R.#2 Red Deer Lake Road North, Wahnapiatae, Ontario, and that I have been practising my profession since 1976.

I am a graduate of both, Sir Sandford Fleming College and Laurentian University, in Sudbury, obtaining both a technician's diploma and an HBSc. in geology.

A handwritten signature in black ink, appearing to read 'Eduard Ludwig', with a stylized flourish at the end.

Eduard Ludwig

April 19, 1985



42A025W8849 2.8040 HINCKS

900

Mining Lands Section

File No 2.8040

Control Sheet

TYPE OF SURVEY GEOPHYSICAL

GEOLOGICAL

GEOCHEMICAL

EXPENDITURE

MINING LANDS COMMENTS:

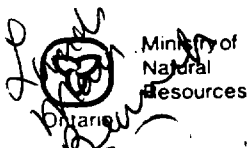
several claims "quater" covered by lake

_____ *lad*

LD

Pouey
Signature of Assessor

1/5/85
Date



Ministry of Natural Resources

Report of Work **W85-08-78**
(Geophysical, Geological, Geochemical and Expenditures)

28040

Instructions: - Please type or print.
- If number of mining claims traversed exceeds space on this form, attach a list.
Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
- Do not use shaded areas below.

APR 18 1985

Mining Act

Type of Survey(s) **Geological Survey** Township or Area **Hinks Township.**

Claim Holder(s) **Marjel Resources Inc. - Glen Coyne - m-80248** Prospector's Licence No. **T-1821**

Address **27 Queen St. E., suite 402, Toronto, Ontario M5C 2M6**

Survey Company _____ Date of Survey (from & to) _____ Total Miles of line Cut **12.5**

Day | Mo. | Yr. | Day | Mo. | Yr. |

Name and Address of Author (of Geo-Technical report)
Eduard Ludwig, RR#2, Red Deer Lake Rd. North, Wahnapiatae, Ont. P0M3C0

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	40
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
L	791178				
	791180				
	791181				
	791182				
	791183				
	791184				
	791185				
	791186				
	791187				
	791188				
	791189				
	791190				
	791191				
	791192				

RECEIVED
MAR 27 1985
MINING LANDS SECTION

LARDEE LAKE
MINING DIV.
RECEIVED
FEB 27 1985
AM 7 18 19 10 11 12 11 21 31 4 15 16 PM

Expenditures (excludes power stripping)

Type of Work Performed _____

Performed on Claim(s) _____

Calculation of Expenditure Days Credits

Total Expenditures \$ _____ ÷ **15** = Total Days Credits _____

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work. **15**

Date **Feb. 27/85** Registered Holder or Agent (Signature) *[Signature]*

For Office Use Only

Total Days Cr. Recorded **600** Date Recorded **FEB 27 1985** Mining Recorder *[Signature]*

Date Approved as Recorded **85.5.3** Branch Director *[Signature]*

Certification Verifying Report of Work
I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying
Eduard Ludwig, RR#2, Red Deer Lake Rd. N. Wahnapiatae, Ont. P0M3C0



REGISTERED

April 18, 1985

Work Report #78

Marjel Resources Inc.
27 Queen Street East
Suite 402
Toronto, Ont.
M5C 2M6

Dear Sir:

Re: Mining Claims L 791178 et al in the Township of Hinks

I have not received the reports and maps (in duplicate) for the Geological survey on the above-mentioned claims.

As the assessment "Report of Work" was recorded by the Mining Recorder on February 27, 1985, the 60 day period allowed by Section 77 of The Mining Act for the submission of the technical reports and maps to this office will expire on April 29, 1985.

If the material is not submitted to this office by April 29, 1985, I will have no alternative but to instruct the Mining Recorder to delete the work credits from the claim record sheets.

For further information, please contact Mr. Arthur Barr at (416)965-4888.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park, Toronto
Ontario M7A 1W3
Phone: (416)965-4888

AB:nfc

c.c. Mining Recorder: Kirkland Lake
c.c. Edward Ludwig
R.R.#2
Red Deer Lake Rd. North
Wahnapitae, Ont.
POM 3C0

Glen Coyne,
527 Mountjoy St. S.,
Timmins, Ont.
Jan 1981

